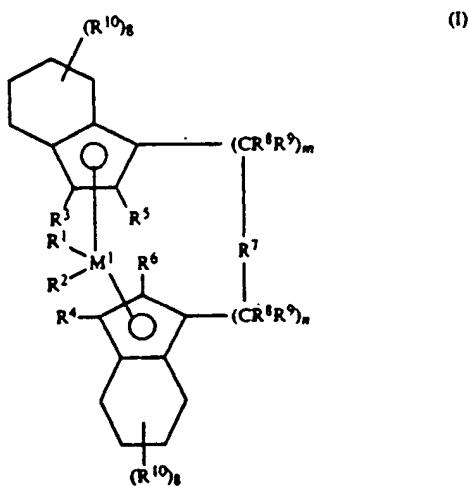


[57]

ABSTRACT

The novel metallocenes of the formula I



in which, preferably, M^1 is Zr or Hf, R^1 and R^2 are alkyl or halogen, R^3 and R^4 are hydrogen, R^5 and R^6 are alkyl or haloalkyl, $-(CR^8R^9)_m-R^7-(CR^8R^9)_n-$ is a single- or multi-membered chain in which R^7 may also be a (substituted) hetero atom, $m+n$ is zero or 1, and R^{10} is hydrogen, form, together with aluminoxanes as cocatalysts, a very effective catalyst system for the preparation of polyolefins of high stereospecificity and high melting point.

15 Claims, No Drawings